



WEIHENSTEPHAN · TRIESDORF
University of Applied Sciences

APPLIED SCIENCES FOR LIFE

WELCOME

»Together, we are shaping the future.«



Prof. Dr. habil. Carsten Lorz –
Vice President for International
Affairs and Diversity

Welcome to Hochschule Weihenstephan-Triesdorf University of Applied Sciences (HSWT). Since its foundation in 1971, HSWT has developed a unique profile. Today, applied life sciences and green technologies form the core of HSWT's teaching and research portfolio. For more than 50 years, our university has been successfully combining practical relevance and scientific excellence.

During the last 30 years, international cooperation has become increasingly important for HSWT. We have continuously extended our network with partners from regions all over the world. We are committed to the exchange of people and ideas across borders as an essential contribution to face global challenges such as climate change, food security, sustainable resource management and many others. Thus, we take responsibility for meeting the Sustainable Development Goals of the United Nations. The core of our philosophy is to foster sustainable thinking and impart theoretical and practical competences in the fields of life science and green engineering as well as to teach entrepreneurial skills to our students.

HSWT is the place for learning, teaching and researching applied life sciences. At HSWT, we offer students, teachers and researchers from our partner network an ideal environment to make their contribution to the challenges of today and tomorrow. Our university supports the exchange of people and ideas by initiating and participating in national and international projects, providing funding and advising incoming and outgoing students, researchers, professors and staff members about available opportunities. Together with our global partner network and with our commitment for applied sciences, we help to create the future of our world.

The HSWT family looks forward to meeting you!

WEIHENSTEPHAN- TRIESDORF

University of Applied Sciences (HSWT)

Applied Sciences for Life – that’s what Weihenstephan-Triesdorf University of Applied Sciences (HSWT) stands for. Experience the biggest green university site in Germany on the Weihenstephan campus; the Triesdorf campus offers all the infrastructure needed for applied agricultural sciences. We teach students green engineering in a spirit of closeness and sustainability – with an interdisciplinary, international and practice-oriented approach. Our applied research tackles the great challenges of our times.

We are one of the leading national and international universities of applied sciences and green engineering. Excellent teaching with a strong practical element and applied research form the core of our identity.

We stand for embedding the principles of sustainability in society and business. We are motivated by the sustainable use and protection of all natural forms of ex-

istence. At Weihenstephan-Triesdorf University of Applied Sciences, people are at the centre: we develop their talent in an open working and learning environment. Our strategies stem from the potential of their diversity, and we offer equal opportunities in every respect. We reflect the living world of social groups at our university sites and network intensively with citizens in the region.

WE STAND FOR

Applied Sciences for Life

- We stand for teaching and research in applied sciences to help overcome **local and global challenges**.
- We develop and establish **practical solutions** for the sustainable use of our natural resources through **knowledge and technology transfer**.
- We promote a **culture of innovation and pioneering spirit** as an entrepreneurial university. That's why we support our students and employees to develop their creative potential.
- We offer **outstanding teaching and research infrastructure**. That includes show gardens, pilot plants and state-of-the-art laboratories and technology centres.

- We stand for **applied sciences, innovation and digital technologies** for a sustainable approach to our natural resources and the effects of climate change.
- Through our engineering education offering and interdisciplinary research activities, we contribute to the **sustainable development of society and to securing natural resources for future generations**.
- We develop science-based solutions, products and innovations by tackling urgent practical problems in research projects and transferring **current scientific knowledge and methods** into practice.
- We develop and maintain our national and international networks in the context of **long-term partnerships on an equal footing**, sharing knowledge, people and ideas globally through a practice-oriented approach.
- We are committed to improving understanding and acceptance of science in society through **continuous scientific communication and compliance with ethical principles**.

- As a **green university**, we put the protection of natural resources at the centre of our content and organisational approach.
- We help our students to become value-oriented people through an **excellent range of practical courses**. Our aim is to prepare students to directly enter the world of work so they can help sustainably shape the future of our globalised world.
- We stand for a **family atmosphere where all members of the university are valued**: creativity, innovation and knowledge can thrive in a close-knit university environment free from discrimination.
- Through **continuing education, we enable life-long learning** tailored to individual personal circumstances and reflecting the dynamics of the world of work. Even after students have graduated, we encourage alumni networking through engaging programmes.



APPLIED SCIENCES FOR LIFE



Green Life Sciences

- consistent specialisation in life science engineering
- green campus
- EMAS and EMASplus certified



Practical Relevance

- practical teaching
- work-study programmes
- strong links with industry



Applied Research

- interdisciplinary research
- knowledge transfer
- establishing young scientists' careers



STUDYING AT HSWT

»I study at HSWT because here I am learning to take responsibility for our environment as an engineer.«

LINA FROM GERMANY – STUDENT WATER TECHNOLOGY



»I believe that interdisciplinary studies are absolutely essential in today's multifaceted world. In addition to lectures, we gain a lot of experience by working on projects and spending time in the field and in the laboratory. What I particularly value is that we are a small group of students and professors who connect really fast.«

ROK FROM SLOVENIA – STUDENT CLIMATE CHANGE MANAGEMENT

»Practical relevance is important to us because we want to prepare students as much as possible for their professional careers.«

PROF. CLAUDIA BRAND FROM GERMANY – DEAN,
DEPARTMENT OF BIOENGINEERING SCIENCES



» The work-study programme perfectly links theory and practice which complement one another. «

LUCA FROM GERMANY – STUDENT LANDSCAPE CONSTRUCTION & MANAGEMENT (WORK-STUDY PROGRAMME)



» HSWT's experienced and passionate professors support students with their learning process. Studying in English at an international university is a great opportunity for me. The required internship programme that follows the theoretical part of my studies prepares me well for professional projects at an international level.«

TAHA FROM IRAN – STUDENT INTERNATIONAL MASTER OF LANDSCAPE ARCHITECTURE

» The German-French double degree programme is an excellent opportunity for me to learn about another country, deepen my German language skills and to discover hands-on study projects. Receiving two internationally recognised degrees in one degree programme at the end of my studies is a major benefit, which offers attractive career prospects. «

LENA FROM FRANCE – STUDENT GERMAN-FRENCH DOUBLE DEGREE LANDSCAPE ARCHITECTURE



APPLIED SCIENCES FOR LIFE

No other university in Germany offers a comparable range of subjects that is so consistently orientated towards green engineering. The seven departments at our two campuses cover 19 Bachelor's and 13 Master's degree programmes in ecological, technical and business subjects. At both campuses, Weihenstephan and Triesdorf, we offer our students extensive, practical expertise in teaching and research in these subject areas:

- Agricultural science
- Nutrition & food
- Renewable energies
- Environmental protection
- Biosciences
- Ecology & environmental planning
- Business & management

Our recipe for success is an education with direct practical relevance and sound scientific fundamentals. We prepare our students for directly entering the world of work. That's why we offer 14 dual (work-study) programmes, where part of the course takes place at a company. Be it in a classic or dual model, all our students benefit from Weihenstephan-Triesdorf University of Applied Sciences' network with institutions, associations, industry and business.

We prepare our students for the global world of work through: time abroad, international double-degree programmes, collaborations with more than 140 educational institutions all over the world.

As an entrepreneurial university, we also promote a culture of innovation and pioneering spirit. Numerous start-ups have already emerged from student projects.



HSWT in numbers

winter semester 2021/22:

154
full professors

393
adjunct staff

2
CAMPUSES:
WEIHENSTEPHAN
& TRIESDORF

2
SITES:
SCHLACHTERS &
STRAUBING

1
INNOVATION
CAMPUS

6095
students
1695 new students

19
BACHELOR'S
PROGRAMMES

14
WORK-STUDY
PROGRAMMES

13
MASTER'S
PROGRAMMES
INCLUDING:

5
INTERNATION-
AL MASTER'S
PROGRAMMES

1
CONTINUING
EDUCATION
PROGRAMME

1
CERTIFICATE
COURSE



DEGREE PROGRAMMES

Agricultural Science

Bachelor:

agricultural engineering (B. Eng.)

agriculture (B. Sc.)

horticulture – production, commerce, services (B. Sc.)

Master:

agricultural management (M. Sc.)

international master in agricultural management (M. Sc.)

international farm management (M. Sc.)

Nutrition & Food

Bachelor:

organic food products and business (B. Sc.)

brewing and beverage technology (B. Eng.)

nutrition and food supply management (B. Sc.)

foodstuff management (B. Sc.)

food technology (B. Sc.)

Master:

food quality (M. Eng.)

Renewable Energies

Bachelor:

management of renewable energies (B. Sc.)

climate-neutral energy systems (B. Eng.)

Master:

business management and renewable energy entrepreneurship (M. Sc.)

energy management and technology (M. Eng.)

Environmental Protection

Bachelor:

environmental engineering (B. Eng.)

water technology (B. Eng.)

Master:

climate change management (M. Sc.)

environmental engineering (M. Eng.)

Biosciences

Bachelor:

biotechnology (B. Sc.)

bioprocess informatics (B. Sc.)

Master:

biotechnology/bioengineering (M. Sc.)

Ecology & Environmental Planning

Bachelor:

engineering in forestry (B. Eng.)

landscape architecture (B. Eng.)

landscape construction and management (B. Eng.)

Master:

international master of landscape architecture (M. Eng.)

Business & Management

Bachelor:

agribusiness (B. Eng.)

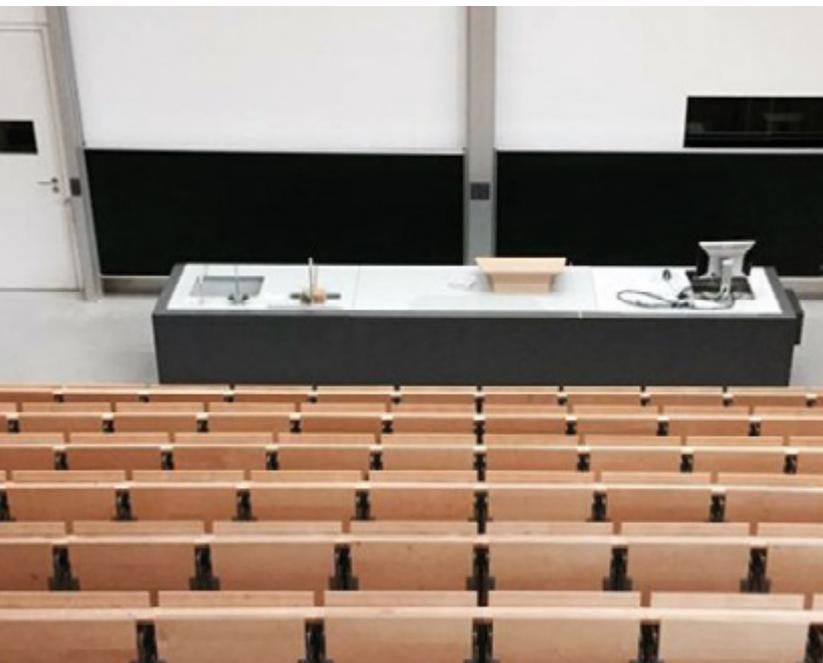
Master:

international management of forest industries (M. Sc.)

regional management (M. Sc.)



www.hswt.de/en/studies/degree-programmes



RESEARCH AT HSWT

Research Facilities

HSWT ranks among the most active universities of applied sciences in research on life science engineering. Research is conducted in all departments and in the research institutes, offering excellent opportunities in equipment and facilities.

HSWT increased its national and international third-party revenues on average by 25% per year up to a value of nearly € 11 m and 178 projects in 2021.



Institute
of Food
Technology

Institute for
Biomass
Research

Institute of
Horticulture

Institute of
Ecology and
Landscape

Competence
Centre
for Digital
Agriculture

Schlachters
Research
Station for
Pomiculture

Sustain-
able Use of
Resources
at HSWT
Straubing

Example

Indoor Farming Project

Indoor farming is becoming increasingly relevant in public debate and combines many innovative disciplines. It involves the cultivation of plants in a closed cultivation system without sunlight and allows every single cultivation parameter to be precisely controlled. One major advantage of indoor farming compared to conventional cultivation outside or in greenhouses is the opportunity to establish completely weather-independent plant production. Crop management is carried out under precisely defined conditions and the quality of the raw materials can be carefully influenced and optimised. Moreover, indoor farming offers enormous potential for the automation of production processes. Because the cultivation that takes place in an indoor farm is very technical in nature, a high degree of interdisciplinarity is key to its success. Important current research topics in the field of indoor farming include: the resource-efficient and environmentally friendly use of raw materials, the optimisation of horticultural production methods, intelligent energy concepts and use of indoor farming systems across the entire value chain. Prof. Heike Mempel's research team is working on various projects in the above areas in the Applied Science Centre (ASC) for Smart Indoor Farming at HSWT.



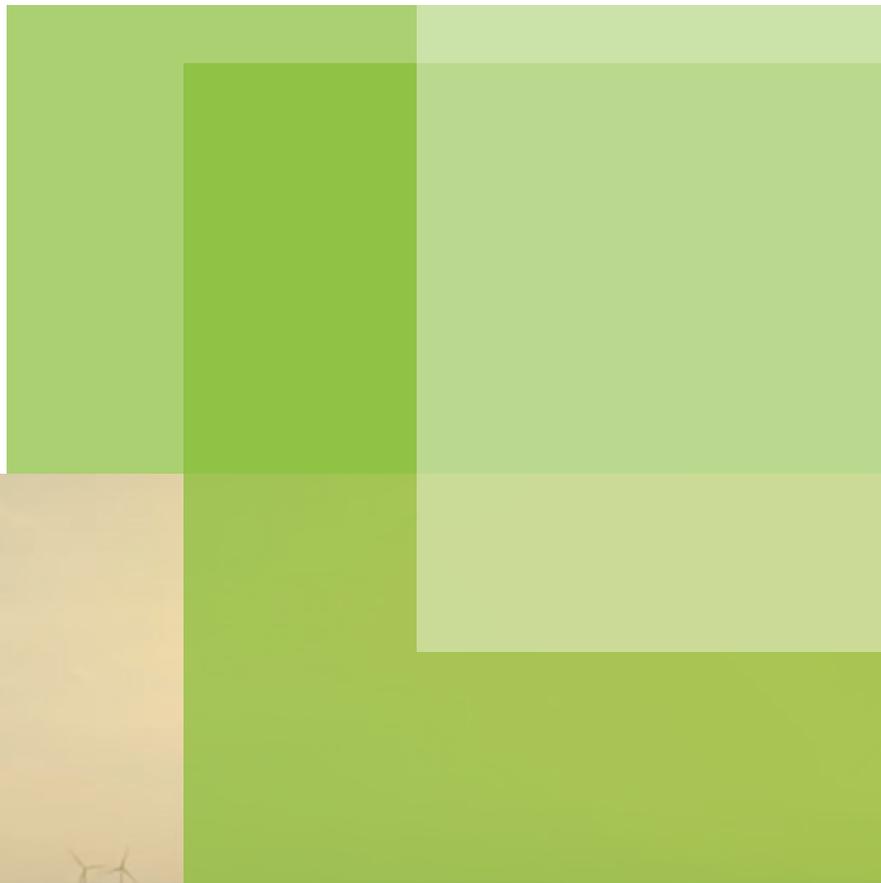
» The cultivation of crops in an indoor farm is extremely water-efficient. We have demonstrated this using lettuce as an example. We produced one kilogram of lettuce using only slightly more than one litre of water. In contrast to this, lettuce from the open field needs over a hundred litres of water to be cultivated. Indoor farming allows us to tackle important global issues such as resource consumption, environmental protection and food security. «

PROF. HEIKE MEMPEL, APPLIED SCIENCE CENTRE (ASC) FOR SMART INDOOR FARMING

SUSTAINABLE. SCIENTIFIC. SUCCESSFUL.



www.hswt.de/en/research/research-profile





Technology & Knowledge Transfer

- collaborations with industry, science, politics and society
- outreach events
- support of spin-off, start up and entrepreneurship
- management of intellectual property



Main Fields of Research

- land use, nutrition & health
- precautionary environmental planning, biodiversity, climate change
- renewable resources, renewable energies & energy efficiency



Implementation of Think Tanks

- Food Startup Incubator
- applied science centres
- tech transfer centre
- innovation lab
- BayWISS Academic Partnership "Life Sciences & Green Technologies"

INTERNATIONAL SERVICES

Worldwide, there is an enormous demand for application-oriented academic training as provided by HSWT for several disciplines in applied life sciences. HSWT is dedicated to international cooperation in applied life sciences and is therefore very active in a global network of universities, research institutions, NGOs and companies. This network provides excellent opportunities for all university members. Our internationalisation strategy "HSWT goes international" and the Sustainable Development Goals by the United Nations are the framework for activities with partners worldwide.

Our students have numerous possibilities to participate in exchange semesters and internships abroad as well as doing a final thesis in cooperation with partners abroad. Students can also take part in summer schools, international excursions and other international events. The "International Office, Funding and Career Service (IFC)" supports students' international activities through counselling, coordination and support services (e.g. supporting the application process, assistance in finding accommodation), providing funding opportunities (e.g. through ERASMUS programmes and other scholarships) and offering mentoring programmes and hosting events (e.g. Welcome Days, Orientation Weeks). HSWT also supports the international exchange of professors/lecturers and other staff members.

HSWT welcomes incoming international students as well as professors/lecturers and staff members from partner universities and offers a broad range of opportunities for these groups. International students may choose between a variety of English-taught classes at bachelor level, a continuously growing number of international master's degree programmes and several double degree programmes. Our university offers international master's programmes in the fields of Agricultural Management, International Farm Management, Landscape Architecture, International Management of Forest Industries and Climate Change Management. In our bachelor's degree programmes, we offer English-taught classes as well as an international summer semester in agriculture.

The "HSWT Career Service International" supports international students in the transition from university to employment. All students and staff members at HSWT can choose from a broad range of language courses provided by the Language Centre covering English, French, Spanish, Italian, Dutch, Russian, Chinese and German as a foreign language. Five of the languages are offered as part of the university-exclusive course and certification system UNlcert®.

Moreover, the "HSWT International School for Applied Life Sciences" acts as a global ambassador for HSWT providing application-based academic training, continuing education and knowledge transfer.

Our global network currently focusses on partners in all parts of Europe, Central and South-Eastern Asia, Africa and Latin America but is open to every institution or person with a dedication to long-term cooperation for the benefit of all participants.

HSWT has already received several awards for its internationalisation efforts, e.g. the Erasmus seal "E-Quality" for its special merits and achievements with regard to the Erasmus exchange programme and was ranked in the top 10 of all German universities in the Erasmus+ best practice partner project. HSWT has joined the Erasmus Charter for Higher Education as well as the National Code of Conduct for German Universities regarding International Students. For its efforts regarding the promotion of equality and diversity, HSWT was awarded with the "Total E-Quality & Diversity" label.

Overall, HSWT's international portfolio of activities and services, its engagement in international networks as well as its awards for international achievements provide excellent conditions for university members to engage in international activities.



International
Office, Funding
and Career
Service



Language
Centre



HSWT
International
School



Facts



143 university partnerships worldwide
442 international students



English-taught classes at bachelor level, 5 international master's degree programmes, several double degree programmes



8 languages offered by the Language Centre (5 languages offered as part of the certification system UNIcert®)



international projects (e.g. HAW.International, Training Pact with Africa, African-Bavarian-Alliance, Bavarian-Latin American Alliance)



numerous funding programmes and scholarships (e.g. Erasmus+, Germany Scholarship Programme etc.)



counselling, coordination and support services; funding, mentoring and organisation of events through the "International Office, Funding and Career Service" (IFC)



application-based academic training, continuing education and knowledge transfer services provided by the "HSWT International School"



summer schools, international excursions & international events



diversity campaigns



international networks (e.g. Network Africa, Network Latin America)



HSWT FAMILY

» HSWT offers to me the perfect symbiosis of technical engineering training and a balanced social life.«

LUISA FROM GERMANY – STUDENT WATER TECHNOLOGY



» I enjoy studying at HSWT because of the close contact with professors which enriches the learning experience. The relaxed atmosphere is great for international students to experience the culture and get to know people. In addition, the campus offers plenty of activities to choose from.«

MITCHELL FROM ZIMBABWE – STUDENT CLIMATE CHANGE MANAGEMENT

» During my studies, I got to know students from all over the world. On top of that, I was given the opportunity to work as a degree programme assistant at HSWT.«

MARGARET FROM KENYA – STUDENT INTERNATIONAL MASTER IN AGRICULTURAL MANAGEMENT AS A PART OF THE "TRAINING PACT WITH AFRICA" FUNDED BY THE FEDERAL MINISTRY FOR ECONOMIC COOPERATION AND DEVELOPMENT (BMZ) AND THE DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT (GIZ)



» Family atmosphere, a wide range of extra-curricular activities and studying with a mountain view – that's HSWT. «

JAKOB FROM GERMANY – STUDENT LANDSCAPE ARCHITECTURE



» I have learned a lot from the professors and from other students from all over the world, especially in group projects and excursions. What I love about my programme is that I can solve social problems through landscape interventions. «

RACHELLE FROM LEBANON – STUDENT INTERNATIONAL MASTER OF LANDSCAPE ARCHITECTURE

» At HSWT you can find a great community and professors who set you up to succeed in your future career. «

BERNHARD FROM GERMANY – STUDENT ENVIRONMENTAL ENGINEERING





APPLIED SCIENCES FOR LIFE



Great Campus Life

- family atmosphere
- mentoring programmes
- university sports
- extra-curricular activities
- interdisciplinary excursions



Facilities

- large green campuses
- food and beverage
- student residences
- safe environment for students



Staying in Contact

- associations for alumni
- digital alumni platform
- newsletters
- lifetime connections

HSWT STORIES

Veronika Bruckmayer

»It is great to see what can be created from raw materials and how you can make people happy with your final product. For my thesis, I was involved in direct marketing and today, you can see the results on site in our mill shop. The time I spent studying in Weihenstephan was simply wonderful and I can just recommend everyone to study there.«

Veronika Bruckmayer completed her degree in Agricultural Marketing, Agricultural Management in 2002 (note: the degree programme has since been revised and is currently offered as Agribusiness). For her final project, Veronika focused on direct marketing and implemented the concept that she devised in the family company, Bruckmayer Mühle. She is a fourth-generation miller there and sells flour, muesli and other products in the farm shop on site in Altötting.



Veronika Bruckmayer at the local farm shop

Niklas Lieb

» **As a ranger at Nagelfluhkette Nature Park, our main tasks are visitor management measures. What motivates me is that I have contact with with a lot of people and can show them the beautiful scenery which exists 'in front of their doorsteps'. Working as a ranger, every day is different and the tasks are constantly changing from summer to winter. Today, I can make good use of the wide range of skills I have acquired during my studies at HSWT which are needed in my job as a ranger.**«



Niklas Lieb completed his degree in Forest Engineering at HSWT in 2019. Together with his colleagues, he is dedicated to maintaining a cultural landscape rich in species and is always to be found where his expertise, manpower and enthusiasm are most needed in the park: be it in ranger programmes, the implementation of visitor management measures or Nature Park schools, Niklas loves sharing his passion for nature and all living things with children, young people and adults in guided tours and campaigns.



George Opare Asare



HSWT's postgraduate training course "Food Chains in Agriculture" is oriented towards the establishment, improvement and management of value chains in the agriculture and food sectors

Most of the world's cashew harvest comes from Africa. In Ghana, around 300,000 farmers are involved in cashew cultivation. The local value chain mainly focusses on the production and export of raw cashew nuts, whereby by-products such as cashew apples are almost never utilised. However, there is great potential in the commercial exploitation of the nutrient-rich fruit, which has not yet been fully harnessed. This is where George Opare Asare's project idea comes in: his goal is to establish a social enterprise which trains women in rural areas to process cashew apples – for example into jam, juice or sweets – and to support them in setting up their own small businesses. Thereby, women have the chance to increase their income and their economic independence. At the same time, the women can create additional jobs in their small businesses. George Opare Asare has already registered his company in Ghana and has consulted cashew farmer groups who are interested in the project.

He developed his project idea in 2019 in the HSWT postgraduate training course "Food Chains in Agriculture" which is part of the "Training Pact with Africa". This pact is funded by the Federal Ministry for Economic Cooperation and Development (BMZ) and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH as part of the global strategy "Green Innovation Centres for the Agriculture and Food Sector" (GIC) and the special initiative "ONE WORLD – No Hunger". The course is designed to provide highly qualified and motivated graduates of master's degree programmes with in-depth knowledge and practical experience in the establishment, improvement and management of value chains in the agriculture and food sectors. The qualification programme was developed in 2017 with tremendous support from former Federal Minister Dr. Gerd Müller.

Corinna Esterer

»I did my practical training semester in 2013 and since then I have worked with the Waldrapp team. The Northern Bald Ibis (Waldrapp) is a migratory bird which was wiped out in Central Europe over 400 years ago and our team is reintroducing it. We act as human foster parents by raising them and then guiding them south. What I am doing now is actually my dream job.«



Corinna Esterer completed her degree in Environmental Engineering at our university in 2014. During her practical training semester, she joined the team researching the bald ibis, and has since been working on a project aimed at the repopulation of this migratory bird. The bald ibis – considered a delicacy and therefore subject to intensive hunting – became extinct in Central Europe in the 17th century. As part of the project run by the bald ibis team, therefore, young birds are raised in captivity and guided to their winter migration site in Tuscany by ultra-light aircraft, because the species has lost its natural migration instinct. It is the first attempt to reintroduce a species of migratory bird that has become extinct in this country allowing it to again demonstrate the migratory behaviour of its ancestors.



Corinna Esterer feeding the bald ibises

Daniel Eckstein

»What I like about the water industry is its sense of unity. We all need clean water and that is only possible if the water industry runs well. We will not be able to continue living the way our society lives right now. Thus, it was important for me to take up a profession through which I can make a difference. During my studies, the social aspect and personal development were crucial points for me and studying in Triesdorf offered me the space to develop my individuality.«



Daniel Eckstein completed his degree in Environmental Engineering at the Triesdorf campus in 2013. He wants to “make a difference” and, as Director of a Regional Group within the German Association for Water, Wastewater and Waste (Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall – DWA), he advocates sustainable water management. The DWA, a politically and economically independent association, supports research and development, provides a forum for members to exchange ideas and opinions and advises policymakers.



Daniel Eckstein – Alumni Environmental Engineering, now Director of a Regional Group within the German Association for Water, Wastewater and Waste (DWA)

Astrid Wöhrl

Astrid Wöhrl graduated in Agribusiness Marketing and Management (now Agribusiness) from HSWT in 2003. Together with her husband, she opened the “AmVieh Theater”, an event venue offering a cultural venue, gastronomy and an eco hotel on an organic farm. The AmVieh Theater is located north of Munich, surrounded by grain fields, clover meadows and pastures. “AmVieh” means “Among livestock”, and it certainly lives up to its promise: visitors here are surrounded by sheep, llamas, alpacas and many other animals and can enjoy a culinary experience – coffee and cake, a five-course evening meal and now even an Ayurvedic cookery course. And guests who choose to stay longer have the option to check into the small hotel constructed from wood, camp in a motorhome or rent “Wolpi”, a self-contained cabin in the style of a wooden circus trailer.



»I met my husband during my studies at HSWT. Together, we opened up an event venue on an organic farm where I work as a chef. Processing delightful food, I came across Ayurveda which makes me really happy and I love to pass it on and integrate the concept at our event venue. I had a brilliant time and made marvelous contacts studying in Weihenstephan. I am very grateful that I had the chance to choose this path – it was wonderful.«

ADDRESS



Triesdorf Campus

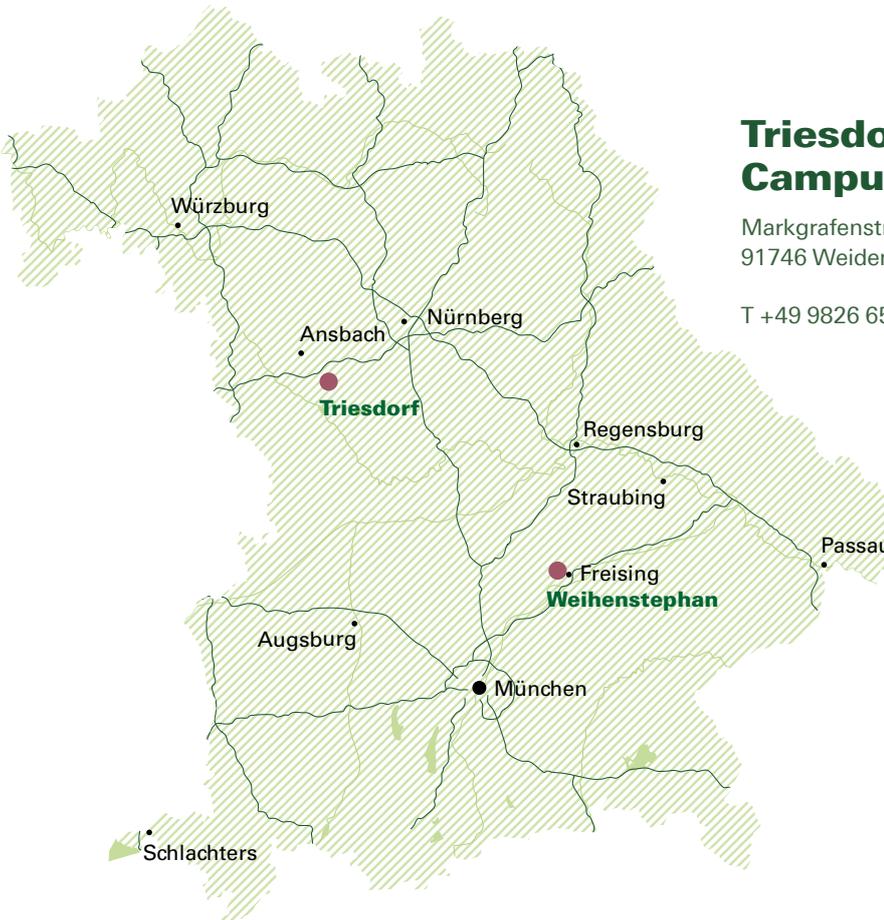
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www.linkedin.com/school/hswt/mycompany/

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